

INTERNATIONAL SEARCH REPORT

International Application No

PCT/US2004/029236

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 B22F3/105 B29C33/10

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 B29F B22F B29C

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, PAJ, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2002/057627 A1 (SCHUBERT KLAUS ET AL) 16 May 2002 (2002-05-16) claims 1-8; figure 1	1-12,15, 16, 19-42, 46-55, 58-86
A	EP 0 908 286 A1 (FRAUNHOFER-GESELLSCHAFT ZUR FOERDERUNG DER ANGEWANDTEN FORSCHUNG E.V) 14 April 1999 (1999-04-14) claims 1-8; figure 1	1-16
A	DE 199 37 315 A1 (MUELLER WEINGARTEN AG) 22 February 2001 (2001-02-22) claims 1-4; figure 2	1-16

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☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents :

- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier document but published on or after the international filing date
- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

- "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- "&" document member of the same patent family

Date of the actual completion of the international search

28 February 2005

Date of mailing of the international search report

11 -08- 2005

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PCT/US2004/029236

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	<p>TOBIN J ET AL: "RAPID STEREOLITHOGRAPHY MOLDS"</p> <p>MOTOROLA TECHNICAL DEVELOPMENTS, MOTOROLA INC. SCHAUMBURG, ILLINOIS, US, vol. 15, 1 May 1992 (1992-05-01), page 38, XP000305734</p> <p>ISSN: 0887-5286</p> <p>the whole document</p> <p>-----</p>	1-16
A	<p>EP 0 868 955 A (PIRELLI PNEUMATICI SOCIETA PER AZIONI) 7 October 1998 (1998-10-07)</p> <p>the whole document</p> <p>-----</p>	1-16
A	<p>EP 1 252 952 A (EXTRUDE HONE CORPORATION) 30 October 2002 (2002-10-30)</p> <p>the whole document</p> <p>-----</p>	1-16

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International application No.
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Box II Observations where certain claims were found unsearchable (Continuation of Item 2 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:
2. ☐ Claims Nos.:
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this International application, as follows:

see additional sheet

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☒ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

1-16, 19-43, 46-86

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-16,19-43,46-86

A method for manufacturing a mold with multiple integrated vent conducts by a layered process, with a reduced electronic processing time

2. claims: 17,18,44,45

A method for manufacturing a mold with integrated vents allowing an easy removal of the molded part and reducing the risk of vent blockage

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/US2004/029236

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 2002057627 A1	16-05-2002	DE 19928123 A1 AT 235310 T AU 5815200 A CA 2377370 A1 DE 50001562 D1 WO 0078438 A1 EP 1187671 A1 JP 2003502144 T	28-12-2000 15-04-2003 09-01-2001 28-12-2000 30-04-2003 28-12-2000 20-03-2002 21-01-2003
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EP 0868955 A	07-10-1998	IT M1970160 A1 BR 9800510 A EP 0868955 A1 JP 10244540 A US 2001048182 A1	29-07-1998 21-12-1999 07-10-1998 14-09-1998 06-12-2001
EP 1252952 A	30-10-2002	US 2002189405 A1 CA 2381828 A1 CN 1382540 A EP 1252952 A2 JP 2003027105 A	19-12-2002 25-10-2002 04-12-2002 30-10-2002 29-01-2003